

IN THE CLAIMS

The status of the claims as presently amended is as follows:

1. (Currently Amended) An array speaker system ~~constituted by arraying a plurality of speaker units, said array speaker system comprising:~~

a plurality of speaker units arranged in an array;

[[a]] means for inputting front-side channel signals for instructing reproduction of sound at a front side of a listener listening position and rear-side channel signals for instructing reproduction of sound at a rear side of the listener listening position;

[[a]] means for driving the speaker units ~~with weights using~~ according to weight coefficients ~~based on~~ provided by a Bessel function ~~with respect to~~ for only the front-side channel signals ~~to generate a substantially spherical sound emission pattern at the front-side of the listening position;~~ and

[[a]] means for driving the speaker units ~~with respect to~~ with the rear-side channel signals ~~in such a way that sound is~~ with a prescribed delay processing to produce a sound beam that is directed to reflected at at least one sound reflection position such as a wall surface or a ceiling and is then applied with a prescribed delay value so as to form a reflecting surface that reflects the sound beam reaching to the rear-side of the listener listening position.

2. (Currently Amended) An array speaker system according to claim 1, ~~which is constituted by wherein the plurality of speaker units form a first left array speaker arranged at a left side of a display and a second right array speaker arranged at a right side of the display.~~

3. (Currently Amended) An array speaker system according to claim 2, ~~wherein:~~

~~the front-side channel signals are formed using~~ include a left channel signal, a right channel signal, and a center channel signal, and the rear-side channel signals ~~are formed using~~ include a surround left channel signal and a surround right channel signal, ~~and~~

~~wherein in for the first left array speaker arranged at the left side of the display, only~~ the left channel signal and the center channel signal are subjected to weighting using ~~driven~~ according to the weight coefficients ~~based on~~ provided by the Bessel function, and the surround left channel signal is subjected ~~driven to~~ produce a left sound beam processing, and

~~wherein in for the second right array speaker arranged at the right side of the display,~~ the right channel signal and the center channel signal are subjected to weighting using ~~driven~~

according to the weight coefficients based on provided by the Bessel function, and the surround right channel signal is subjected driven to produce a right sound beam processing.

4. (Currently Amended) An array speaker system according to claim 1, wherein:

the plurality of speaker units are configured as a single array speaker is arranged in front of the listener listening position, and

wherein in the array speaker, a left channel signal, a right channel signal, and a center channel signal, all of which form the front-side channel signals, are subjected to weighting using driven according to the weight coefficients based on provided by the Bessel function, and

a surround left channel signal and a surround right channel signal, both of which form the rear-side channel signals, are subjected driven to produce the sound beam processing.

5. (Currently Amended) An array speaker system including comprising:

an array speaker in which having a plurality of speaker units are arrayed in a matrix-manner, configuration; and

a drive circuitry coupled to the array speaker,

wherein the drive circuitry drives only a first audio signal for instructing reproduction of producing sound at a setup position of the array speaker is subjected to weighting using a according to weight coefficient based on provided by a Bessel function so as to drive the speaker units to generate a substantially spherical sound emission pattern at the setup position, and

wherein the drive circuitry drives a second audio signal for instructing reproduction of producing sound at a specific position other than the setup position of the array speaker is subjected to with a delay processing so as to drive the speaker units in such a way that to produce a sound beam reaching at the specific position is formed.

6. (New) The array speaker system according to claim 1, wherein at least one sound reflecting surface is a wall or ceiling.

7. (New) An array speaker system according to claim 2, wherein each of the left and right array speakers includes an $m \times n$ array of speaker units, where m represents a row and n represents a column, with m being greater than n to confine the speaker units of each the left and right array speakers in a vertically elongated area.

8. (New) An array speaker system according to claim 7, wherein m is an integer of six or more and n is an integer of five or more.